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1   Multiplexed state saving for bounded rollback   ■
Fabian Gomes, Brian Unger, John Cleary, Steve Franks
December 1997 **Proceedings of the 29th conference on Winter simulation**
Publisher: ACM Press
Full text available: 🅰 pdf(888.13 KB)   Additional Information: full citation, references, citings, index terms

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2   Incremental state saving in SPEEDES using C++   ■
Jeff S. Steinman
December 1993 **Proceedings of the 25th conference on Winter simulation**
Publisher: ACM Press
Full text available: 🅰 pdf(900.84 KB)   Additional Information: full citation, references, citings

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3   The treatment of state in optimistic systems   ■
David Bruce
July 1995   **ACM SIGSIM Simulation Digest , Proceedings of the ninth workshop on
              Parallel and distributed simulation PADS '95**, Volume 25 Issue 1
Publisher: IEEE Computer Society, ACM Press
Full text available: 🅰 pdf(1.59 MB) 📱 Additional Information: full citation, abstract, references, citings, index
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Optimistic computation methods typically save copies of objects' state information, so
that they can recover from erroneous "over-optimistic" computations. Such state saving is
generally time and space consuming, and can be rather complicated both to implement
and to use.I show how the data structure community's theory of persistence can be used
not only to analyse and explain the treatment of state in optimistic systems, but also as a
simple yet general mechanism for ...

Keywords: optimistic methods, parallel discrete event simulation, persistent data
structures, state saving

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4   ■

EPIC expert assistant calculator: an expert system to facilitate eligibility and savings
determination for a state-sponsored drug insurance program

Arthur Nizza, Gunther R. Geiss
August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life CQL '90**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(627.37 KB)   Additional Information: full citation, references, index terms

5   Application-driven power management for mobile communication

Robin Kravets, P. Krishnan
July 2000 **Wireless Networks**, Volume 6 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(301.68 KB)   Additional Information: full citation, references, citings, index terms

6   Status report of the graphic standards planning committee of ACM/SIGGRAPH: State-of-the-art of graphic software packages

Compuater Graphics staff
September 1977 **ACM SIGGRAPH Computer Graphics**, Volume 11 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(9.03 MB)   Additional Information: full citation, references

7   Information systems outsourcing: a survey and analysis of the literature

Jens Dibbern, Tim Goles, Rudy Hirschheim, Bandula Jayatilaka
November 2004 **ACM SIGMIS Database**, Volume 35 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, abstract, references

> In the last fifteen years, academic research on information systems (IS) outsourcing has evolved rapidly. Indeed the field of outsourcing research has grown so fast that there has been scant opportunity for the research community to take a collective breath, and complete a global assessment of research activities to date. This paper seeks to address this need by exploring and synthesizing the academic literature on IS outsourcing. It offers a roadmap of the IS outsourcing literature, highligh ...
>
> **Keywords**: determinants, literature review, outcomes, outsourcing, relationships, research approaches, theoretical foundations

8   Application-level checkpointing for shared memory programs

Greg Bronevetsky, Daniel Marques, Keshav Pingali, Peter Szwed, Martin Schulz
October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 38 , 39 Issue 5 , 5 , 11
Publisher: ACM Press
Full text available: 📄 pdf(235.77 KB)   Additional Information: full citation, abstract, references, index terms

> Trends in high-performance computing are making it necessary for long-running applications to tolerate hardware faults. The most commonly used approach is checkpoint and restart (CPR) - the state of the computation is saved periodically on disk, and when a failure occurs, the computation is restarted from the last saved state. At present, it is the responsibility of the programmer to instrument applications for CPR.Our group is

investigating the use of compiler technology to instrument codes to ...

Keywords: checkpointing, fault-tolerance, openMP, shared-memory programs

9   Power management techniques for mobile communication
    Robin Kravets, P. Krishnan
    October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on
                  Mobile computing and networking**
    Publisher: ACM Press
    Full text available: pdf(1.31 MB)   Additional Information: full citation, references, citings, index terms

10   Checkpointing-based rollback recovery for parallel applications on the InteGrade grid
     middleware
     Raphael Y. de Camargo, Andrei Goldchleger, Fabio Kon, Alfredo Goldman
     October 2004 **Proceedings of the 2nd workshop on Middleware for grid computing**
     Publisher: ACM Press
     Full text available: pdf(137.21 KB)   Additional Information: full citation, abstract, references, index terms

     InteGrade is a grid middleware infrastructure that enables the use of idle computing
     power from user workstations. One of its goals is to support the execution of long-running
     parallel applications that present a considerable amount of communication among
     application nodes. However, in an environment composed of shared user workstations
     spread across many different LANs, machines may fail, become unaccessible, or may
     switch from idle to busy very rapidly, compromising the execution of the par ...

     Keywords: BSP, checkpointing, fault-tolerance, grid computing

11   Energy conservation for mobile devices: Sleep: a technique for reducing energy
     consumption in handheld devices
     Lawrence S. Brakmo, Deborah A. Wallach, Marc A. Viredaz
     June 2004 **Proceedings of the 2nd international conference on Mobile systems,
                applications, and services MobiSys '04**
     Publisher: ACM Press
     Full text available: pdf(227.79 KB)   Additional Information: full citation, abstract, references, index terms

     Energy management has become one of the great challenges in portable computing. This
     is the result of the increasing energy requirements of modern portable devices without a
     corresponding increase in battery technology. *uSleep* is an energy reduction technique for
     handheld devices that is most effective when the handheld's processor is lightly loaded,
     such as when the user is reading a document or looking at a web page. When possible,
     rather than using the processor's idle mode, uSleep tri ...

     Keywords: energy management, power management, processor sleep

12   General applications: Complex and interconnected systems: optimistic parallel
     simulation of a large-scale view storage system
     Garrett Yaun, Christopher D. Carothers, Sibel Adali, David Spooner
     December 2001 **Proceedings of the 33nd conference on Winter simulation**
     Publisher: IEEE Computer Society
     Full text available: pdf(139.73 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we present the design and implementation of a complex view storage system model that is suitable for execution on a optimistic parallel simulation engine. What is unique over other optimistic systems is that reverse computation as opposed to state-saving is used to support the rollback mechanism. In this model, a hierarchy of view storage servers are connected to an array of client-side local disks. The term *view* refers to the output or result of a query made on the part of ...

13 Parallel algorithms and architectures for rule-based systems

A. Gupta, C. Forgy, A. Newell, R. Wedig

June 1986 **ACM SIGARCH Computer Architecture News , Proceedings of the 13th annual international symposium on Computer architecture ISCA '86,** Volume 14 Issue 2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: .pdf(1.26 MB)   Additional Information: full citation, abstract, references, citings, index terms

Rule-based systems, on the surface, appear to be capable of exploiting large amounts of parallelism—it is possible to match each rule to the data memory in parallel. In practice, however, we show that the speed-up from parallelism is quite limited, less than 10-fold. The reasons for the small speed-up are: (1) the small number of rules relevant to each change to data memory; (2) the large variation in the processing required by the relevant rules; and (3) the small number of changes m ...

14 Computing at the Information Sciences Division, Rockland State Hospital

E. Laska, G. W. Logemann

January 1971 **Proceedings of the 1971 26th annual conference**

Publisher: ACM Press

Full text available: .pdf(1.09 MB)   Additional Information: full citation, abstract, references, index terms

The activities of the Information Sciences Division include research in bio-mathematics, statistics and computer science, development of information systems, and service to the Research Center in such areas as programming, statistical analyses of data, business and administrative applications of computer technology and on-line data collection. The major project of the Information Sciences Division is the Multi-State Information System for Psychiatric Patients. This record keeping ...

Keywords: Biological applications, Information retrieval, Information system, Medical system, Mental health applications, Real time system, Supervisory system

15 Energy-conserving data placement and asynchronous multicast in wireless sensor networks

Sagnik Bhattacharya, Hyung Kim, Shashi Prabh, Tarek Abdelzaher

May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**

Publisher: ACM Press

Full text available: .pdf(222.77 KB)   Additional Information: full citation, abstract, references

In recent years, large distributed sensor networks have emerged as a new fast-growing application domain for wireless computing. In this paper, we present a distributed application-layer service for data placement and asynchronous multicast whose purpose is power conservation. Since the dominant traffic in a sensor network is that of data retrieval, (i) caching mutable data at locations that minimize the sum of request and update traffic, and (ii) asynchronously multicasting updates from sensors ...

16 Business process, health care and service industry applications: Creating a paperless municipal court

John M. Petrakis, Michael J. Engiles
December 2000 **Proceedings of the 32nd conference on Winter simulation**
Publisher: Society for Computer Simulation International
Full text available: pdf(734.10 KB)   Additional Information: full citation, abstract, references, citings

> SIMPROCESS® was used to plan a phased migration from a traditional municipal court to
> a paperless court. The simulation model was also used to provide the financial
> justification, communication of the concept, and plan staffing for the revised operational
> procedures.

17 The impact of object technology on commercial transaction processing   ▪
Edward E. Cobb
August 1997 **The VLDB Journal — The International Journal on Very Large Data
Bases**, Volume 6 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(649.17 KB)   Additional Information: full citation, abstract, index terms

> Businesses today are searching for information solutions that enable them to compete in
> the global marketplace. To minimize risk, these solutions must build on existing
> investments, permit the best technology to be applied to the problem, and be
> manageable. Object technology, with its promise of improved productivity and quality in
> application development, delivers these characteristics but, to date, its deployment in
> commercial business applications has been limited. One possible reason is the ...
>
> **Keywords**: Objects, Workflow, transaction processing

18 Integrated document caching and prefetching in storage hierarchies based on   ▪
Markov-chain predictions
Achim Kraiss, Gerhard Weikum
August 1998 **The VLDB Journal — The International Journal on Very Large Data
Bases**, Volume 7 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(603.01 KB)   Additional Information: full citation, abstract, citings, index terms

> Large multimedia document archives may hold a major fraction of their data in tertiary
> storage libraries for cost reasons. This paper develops an integrated approach to the
> vertical data migration between the tertiary, secondary, and primary storage in that it
> reconciles speculative prefetching, to mask the high latency of the tertiary storage, with
> the replacement policy of the document caches at the secondary and primary storage
> level, and also considers the interaction of these policies with ...
>
> **Keywords**: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic
> modeling, Tertiary storage

19 EmbeddedButtons: supporting buttons in documents   ▪
Eric A. Bier
October 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 4
Publisher: ACM Press
Full text available: pdf(1.87 MB)   Additional Information: full citation, abstract, references, citings, index
terms, review

> EmbeddedButtons is a library of routines and a runtime kernel that support the
> integration of buttons into document media, including text and graphics. Existing
> document editors can be modified to participate in this open architecture with the addition
> of a few simple routines. Unlike many button systems that insert special button objects

into document media, this system supports turning existing document objects into buttons. As a consequence, buttons inherit all of the at ...

Keywords: active documents, buttons, user interface layout

20 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements

Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**
Publisher: ACM Press

Full text available: .pdf(458.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process. The wo ...

Keywords: PDF, form Xobjects, graphic objects, tagged PDF

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